(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁷: **G06F 17/60**

(21) International Application Number:
PCT/GB2004/003741

(22) International Filing Date:
2 September 2004 (02.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0321213.1   10 September 2003 (10.09.2003)   GB

(71) Applicant *(for all designated States except US)*: **BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY** [GB/GB]; 81 NEWGATE STREET, LONDON Greater London EC1A 7AJ (GB).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **AZVINE, Behnam** [GB/GB]; 6 DODSON VALE, KESGRAVE, IPSWICH
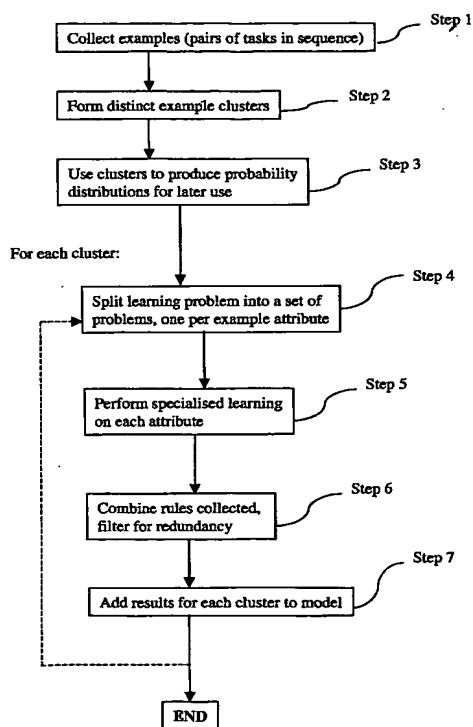
Suffolk IP5 2GT (GB). **ASSADIAN, Behrad** [GB/GB]; 2 KNIGHTS LANE, KESGRAVE, IPSWICH Suffolk IP5 2FS (GB). **MACLAREN, Heather, Ramsay** [GB/CA]; 3266 EAST BOULEVARD AVENUE, VANCOUVER, British Columbia V6J 4A7 (CA).

(74) **Agent: GEFFEN, Nigel, Paul**; PP: C5A, BT CENTRE, 81 NEWGATE STREET, LONDON Greater London EC1A 7AJ (GB).

(81) **Designated States** *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(54) Title: DIARY MANAGEMENT METHOD AND SYSTEM

Process Diagram for Construction of the User Model

(57) **Abstract:** Methods and systems are provided for deriving a user model from a plurality of event records relating to events, each event record comprising data relating to attributes of an event, the method comprising: identifying a plurality of sequences of event records from said plurality of event records, each sequence containing a plurality of event records; determining a plurality of sequence clusters from said plurality of sequences, each sequence cluster comprising a plurality of related sequences; analysing the sequences in a cluster and deriving one or more rules relating to the sequences of that cluster; and providing a user model based on rules derived in relation to a plurality of clusters. Methods and systems are also provided for using a user model for suggesting possible events, or sequences of events, which may follow or precede known events, and for determining a potential sequential order for a plurality of known events.

WO 2005/024683 A1

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:
— *with international search report*